TV
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LASER SAFETY

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

LASER

Type	Semiconductor laser GaAlAs
Wave length	650 nm (DVD) 780 nm (VCD/CD)
Output Power	7 mW (DVD) 10 mW (VCD/CD)
Beam divergence	60 degree

CLASS 1
LASER PRODUCT

CAUTION – Visible and invisible laser radiation when open. Avoid exposure to beam.

ATTENTION aux radiations laser visibles et invisibles lorsque l'appareil est ouvert. Éviter toute exposition aux rayons.

OPGELET voor de zichtbare en onzichtbare stralingen wanneer het toestel geopend is. Vermijd elke blootstelling aan straling.

VORSICHT vor sichtbarer und unsichtbarer Laserstrahlung bei offenem Gerät. Setzen Sie sich auf keinen Fall dieser Strahlung aus.

ATTENZIONE alle radiazioni laser visibili e invisibili quando l'apparecchio è aperto. Evitare qualsiasi esposizione ai raggi.

ΠΡΟΣΟΧΗ στις ορατές και αόρατες ακτίνες λέιζερ όταν είναι ανοιχτή η συσκευή. Αποφύγετε κάθε έκθεση στις ακτίνες.

PAS PÅ synlige og usynlige laserstråler, når apparatet er åbent. Undgå alle laserstråler.

SE OPP FOR synlig og usynlig laserstråling når apparatet er åpent. Unngå å bli eksponert for strålene.

OBSERVERA när apparaten är öppen utsöndras synliga och osynliga laserstrålar. Undvik att utsätta dig för dessa strålar.

CUIDADO con las radiaciones láser visibles e invisibles cuando el aparato está abierto. Evitar cualquier exposición a los rayos.

ATENÇÃO às radiações laser visíveis e invisíveis, quando o aparelho estiver aberto. Evite qualquer exposição a estes raios.

VIGYÁZZON a látható és láthatatlan lézersugárzásra, mikor a készülék nyitva van. Ne tegye ki magát sugárzásnak.

ВНИМАНИЕ! В открытом положении устройство испускает видимое и невидимое лазерное излучение. Исключите любое пребывание под воздействием лучей.

UWAŻAJ *na widzialne i niewidzialne promieniowanie laserowe, emitowane przez włączone urządzenie. Należy unikać narażania się na bezpośrednie oddziaływanie promieni laserowych.*

POZOR na viditelné a neviditelné laserové záření, pokud je přístroj otevřený. Nevystavovat se záření.

POZOR na viditeľné a neviditeľné laserové vyžarovanie, keď je prístroj v prevádzke. Vyhýbajte sa akémukoľvek vystaveniu lúčom.

Dikkat alet açıkken gönür ve görünmeyen lazer radyasyonları vardır. Her türlü ışından sakının.

Introduction

Thank you for purchasing this television set.
This handbook has been designed to help you install and operate your TV set.
We would strongly recommend that you read it thoroughly.
We hope our technology meets entirely with your satisfaction.

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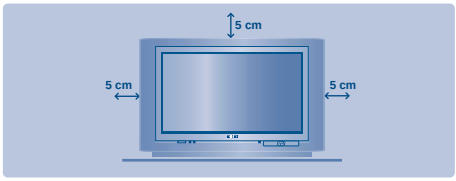
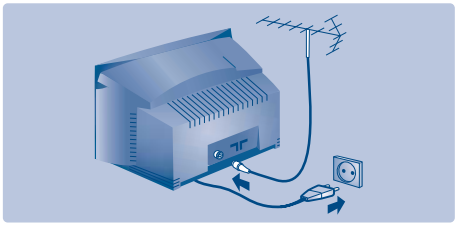
Installing your television set

❶ Positioning the television set



Place your TV on a solid, stable surface, leaving a space of at least 5 cm around the appliance.
To avoid accidents, do not put anything on the set such as a cloth or cover, a container full of liquid (vase) or a heat source (lamp). The set must not be exposed to water.

❷ Connections

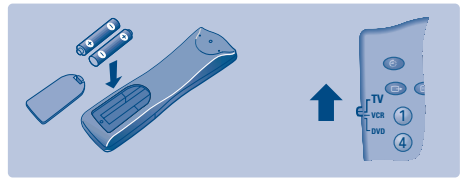


- Insert the aerial plug into the socket at the rear of the set.
- Insert the mains plug into a wall socket (220-240 V / 50 Hz).

❸ Optional Surround loudspeakers

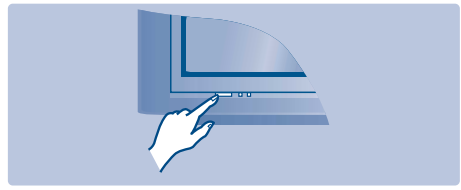
To connect the optional surround loudspeakers see the detailed informations, on page 22.

❹ Remote control



Insert the two R6-type batteries (supplied) making sure that they are the right way round.
Check that the mode selector is set to TV.
The batteries supplied with this appliance do not contain mercury or nickel cadmium. If you have access to a recycling facility, please do not discard your used batteries (if in doubt, consult your dealer). When the batteries are replaced, use the same type.

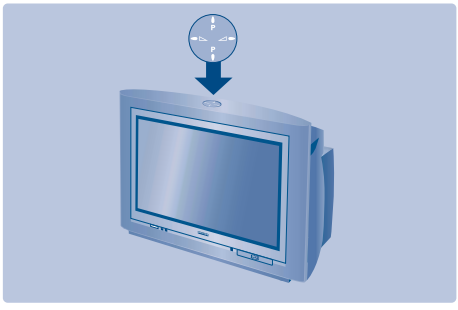
❺ Switching on



To switch on the set, press the on/off key.
A red indicator comes on and the screen lights up. Go straight to the chapter Quick installation on page 4.
If the television remains in standby mode, press P ⊕ on the remote control.
The indicator will flashe when you use the remote control.

The keys on the TV set

The television set has 4 keys which are located on the front or the top of the set depending on the model.



The VOLUME - + (- ◿ +) keys are used to adjust sound levels.
The PROGRAM - + (- P +) keys are used to select the required programmes.
To access the menus, simultaneously hold down the ◿ - and ◿ + keys. The PROGRAM - + keys may then be used to select an adjustment and the - ◿ + keys to make that adjustment.
To exit from the menus, hold down the 2 ◿ - and ◿ + keys.
Note: when the CHILD LOCK function is activated, these keys are unavailable (refer to FEATURES menu on page 8).

The remote control keys

List of programmes
To display/clear the list of programmes. Use the keys ◊◊ to select a programme and the key ⊃ to display it.
The symbol 🔒 is displayed alongside all programmes which are locked (p.10) or 🔓 if they are not locked.

Sleeptimer
To select the length of time before the set automatically switches to standby (from 0 to 240 minutes)

Select EXT sockets
Press several times to select EXT1, EXT2 and EXT3, S-VHS2 and S-VHS3.

Mode selector (p. 21)
To activate the remote control in TV, VCR (video recorder) or DVD mode.

Smart sound controls
To access a series of settings: VOICE, MUSIC, THEATRE and return to PERSONAL

Menu
To display or exit from the menus

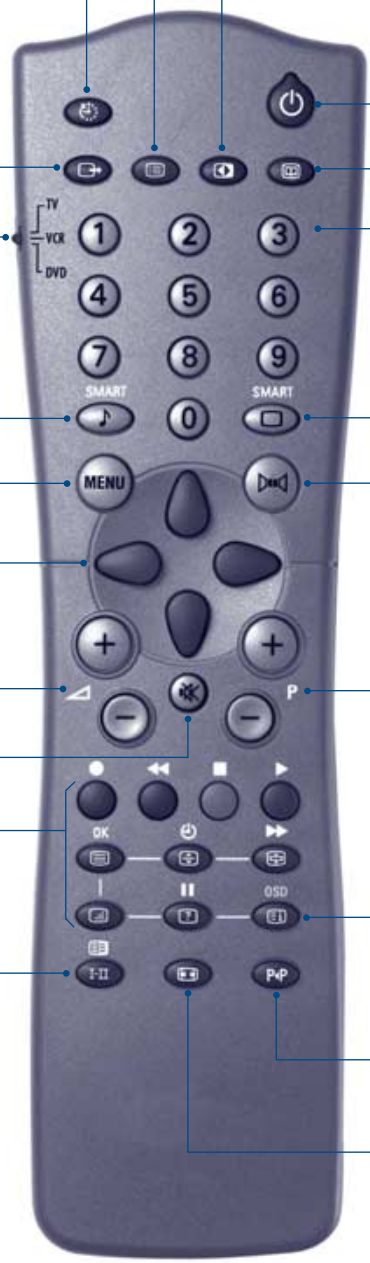
Cursor
These 4 keys are used to move within the menus or to have direct access to the 16:9 formats (p 12).

Volume
To adjust the sound level

Mute
To disable or enable the sound.

Teletext features (p. 11)

Sound mode
To switch from STEREO to MONO or to choose between Dual I and Dual II for bilingual transmissions. For TV sets fitted with NICAM reception, depending on the transmission, you can switch from NICAM STEREO to MONO or choose between NICAM DUAL I, NICAM DUAL II and MONO.
When the sound mode is switched to MONO, the indication is displayed in red.



Contrast +
To activate / de-activate the automatic contrast adjustment system (the dark areas are made darker whilst maintaining the detail).

Standby
To set the TV to standby mode. To switch the TV set on again, press P ⊖ ⊕ or 0 9.

key not used

Numerical keys
For direct access to programmes. For a 2 digit programme number, the 2nd digit must be entered before the dash disappears.

Smart picture controls
To access a series of settings: RICH, NATURAL, SOFT, MULTIMEDIA and return to PERSONAL.

Surround sound
To select the different surround modes (see p.9).

Selecting TV programmes
To move up or down a programme. The number, (the name) and the sound mode are displayed for a few seconds.
For some TV programmes the title of the programme appears at the bottom of the screen.

Screen information
To display / remove the programme number, the name (if it exists), the time, the sound mode and the time remaining on the timer. Hold down for 5 seconds to permanently display the programme number on the screen. The volume level and the smart control adjustments are then displayed each time they are used.

Previous programme
To access the previously viewed programme.

16:9 formats (p. 12)

Quick installation

The first time you switch on the television, a menu appears on the screen and the tuning starts automatically.

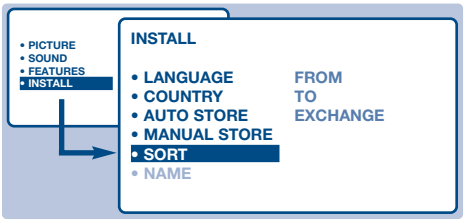
If the menu does not appear, hold down the ◿ - and ◿ + keys on the set for 5 seconds to start the tuning.

The operation takes several minutes.
A display shows the search status and the number of programmes found. When it has finished the menu disappears.
To exit or interrupt the search, press the (MENU) key.
If no programmes are found, refer to the chapter entitled Tips on p. 24.

1. If the transmitter or the cable network broadcasts the automatic sort signal, the programmes will be correctly numbered.
2. If not, the programmes found will be numbered in descending order starting at 99, 98, 97, etc. Use the SORT menu to renumber them.
Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). Where this is the case, make your choice using the ◯◯ keys and confirm with ◯.

Sorting programmes

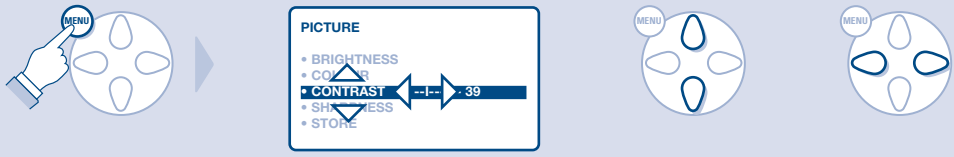
1. Press the (MENU) key. The main menu is displayed.
2. Select INSTALL (◯), then press ◯.
The INSTALL menu appears.



3. Using the ◯ key, select SORT then press ◯.
The SORT menu appears. The FROM option is activated.
Note: this menu works as follows:
- *Change "FROM" (enter the current programme number),*
- *"TO" (enter the new number),*
- *EXCHANGE numbers" (the operation is carried out).*

4. Select the programme you wish to renumber using ◯◯ keys or 0 to 9.
Example: to renumber programme 78 as 2 press 7 8.
5. Select TO (using ◯ key) and enter the new number with ◯◯ keys or 0 to 9 (for the example given, enter 2).
6. Select EXCHANGE (◯ key) and press ◯.
The message EXCHANGED appears, the exchange takes place. In our example, programme 78 is renumbered as 2 (and programme 2 as 78).
7. Select the option FROM (◯ key) and repeat stages 4 to 6 as many times as there are programmes to renumber.
8. To exit from the menus, press (EXIT).

Using other menus



Choosing a language and country

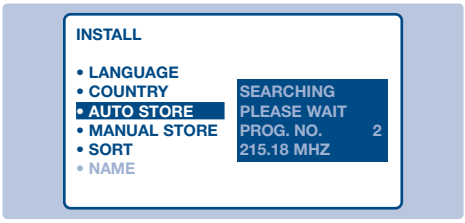
1. Press the MENU key to display the main menu.
2. Select INSTALL (▽), then press ▷.
   The INSTALL menu appears.
   The LANGUAGE option is activated.

3. Press ▷ to go into the LANGUAGE menu.
4. Select your language with the △▽ keys.
   The menus will appear in the chosen language.
5. Press ◁ to exit the LANGUAGE menu.
6. Select the option COUNTRY and press ▷.
7. Select your country with △▽ keys.
   If your country does not appear in the list, select OTHER.
8. Press ◁ to exit the COUNTRY menu.
9. To exit from the menus, press EXIT.

Automatic tuning

This menu allows you to automatically search for all the programmes available in your region (or on your cable network).

1. First carry out operations 1 to 8 above, then:
2. Press ▽ once to select AUTO STORE then press ▷. The search begins.
   After several minutes, the INSTALL menu reappears automatically.



3. If the transmitter or the cable network broadcasts the automatic sort signal, the programmes will be correctly numbered.
4. If not, the programmes found will be numbered in descending order starting at 99, 98, 97, etc.
   Use the SORT menu to renumber them.
   Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). Where this is the case, make your choice using the △▽ keys and confirm with ▷.
   To exit or interrupt the search, press the MENU key. If no picture is found, refer to the chapter entitled Tips on p. 24.
5. To exit from the menus, press EXIT.

Manual tuning

This menu allows you to store the programmes one by one.

1. Press MENU.
2. Select INSTALL (▽), then press ▷.
   The INSTALL menu appears.
3. Select MANUAL STORE (▽) then press ▷.
   The menu appears :

4. Press ▷ to go to the SYSTEM menu.
   Use △▽ to choose EUROPE (automatic detection*) or manual detection with WEST EUR (standard BG reception), EAST EUR (standard DK reception), UK (standard I reception) or FRANCE (standard LL').
   Then press ◁ to exit from the menu.
   ** Except for France (standard LL'): select the option FRANCE.*
5. Select SEARCH and press ▷.
   The search begins. As soon as a programme is found, the search will stop. If you know the frequency of the programme required, enter its number directly using the 0 9 keys and go to step 7.
   If no programme is found, refer to the Tips chapter on page 24).
6. If reception is un-satisfactory, select FINE TUNE and hold down ◁ or ▷ key.
7. Select PROG. NO (programme number) and use the ◁ ▷ or 0 to 9 keys to enter the desired number.
8. Select STORE and press ▷. The message STORED appears. The programme is stored.
9. Repeat steps 5 to 8 for each programme to be stored.

To exit: press the TV key.

Programme name

You may, if you wish, give a name to the first 40 programmes (from 1 to 40).

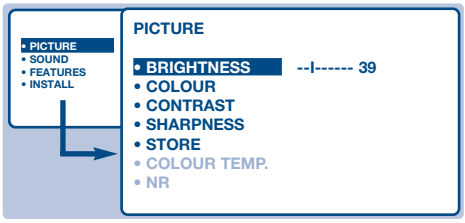
1. Press MENU.
2. Select INSTALL (▽), then press ▷.
   The INSTALL menu appears.
3. Press ▽ 5 times to select NAME (concealed at the bottom of the screen), then press ▷.
   The menu appears :

4. Select the programme you wish to name using the keys 0 9 or − P +.
   Note: at the time of installation, the programmes are automatically named when the identification signal is transmitted.
5. Use the keys ◁▷ to move within the name display area (5 characters).
6. Use keys △▽ to choose the characters.
7. Press MENU when the name has been entered.
   The programme name is stored.
8. Repeat steps 4 to 7 for each programme to be named.
9. To exit from the menus, press TV.

⚠ *Check that the mode selector on the side of the remote control is set to TV.*

Adjusting the picture

1. Press MENU then ▷.
   The PICTURE menu appears :



2. Use △▽ keys to select a setting and ◁▷ keys to adjust.
   Note: the menu is a scroll-down menu.
   Keep the key ▽ held down to access the settings hidden at the bottom of the screen.
3. Once the necessary adjustments have been made, select the option STORE and press ▷ to store them.
4. To exit from the menus, press i.

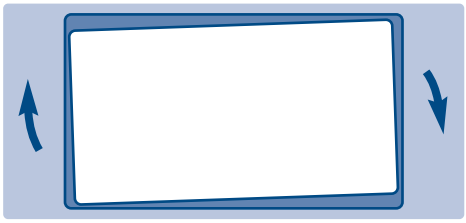
Description of the settings:

- BRIGHTNESS: alters the brightness of the image.
- COLOUR: alters the colour intensity.
- CONTRAST: alters the variation between light and dark tones.
- SHARPNESS: alters the crispness of the image.
- STORE: stores the picture settings.
- COLOUR TEMP (colour temperature): adjusts the colour temperature of the picture. Three options are available here: COOL (blue white), NORMAL (balanced) or WARM (red white).
- NR (Noise Reduction): alleviates fuzziness (snowy picture). This setting is useful when reception is difficult

Rotating the picture

(only available on certain versions)

Larger screens are sensitive to variations in the earth's magnetic field. This setting makes it possible to compensate for this phenomenon.

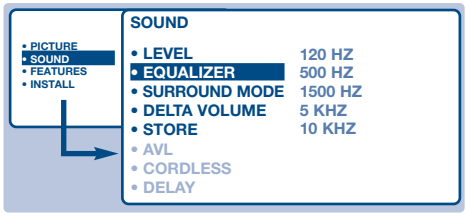


1. Press MENU.
2. Select FEATURES (▽) and press ▷.
   The FEATURES menu appears.
3. Use ▽ key to select ROTATION and use ◁▷ keys to alter the angle of the image.
4. Press i to exit from the menus.

⚠ *Check that the mode selector on the side of the remote control is set to TV.*

Adjusting the sound

1. Press MENU, select the SOUND option ( ) and press . The SOUND menu appears :



2. Use keys to select a setting and keys to adjust.
   Note: to access the AVL, CORDLESS and DELAY settings (hidden at the bottom of the screen) hold down key. The CORDLESS and DELAY settings are only availables if surround loudspeakers are connected to the TV set. The DELAY setting only appears in DOLBY PRO LOGIC and HALL SURROUND modes.
3. Once the necessary adjustments have been made, select the option STORE and press to store them.
4. To exit from the menus, press .

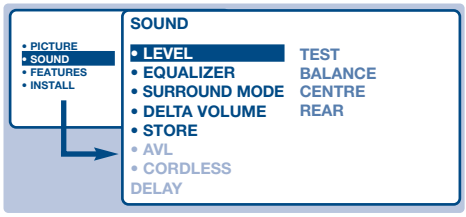
Description of the settings:

- LEVEL: to balance the sound between the different speakers (see below).
- EQUALIZER: to adjust the sound tone (from bass: 120 Hz to treble: 10 kHz).
- SURROUND MODE: to select the different surround modes (see next page).
- DELTA VOLUME (volume difference): allows you to compensate for the volume differences between the different programmes or the EXT sockets. This setting is available for programmes 1 - 40 and the EXT sockets.
- STORE: stores the sound settings.
- AVL (Automatic Volume Leveller): automatic volume control used to avoid sudden increases in volume, particularly when changing programmes or during advertisements.
- CORDLESS: to adjust the different parameters of the cordless surround speakers (see p. 17).
- DELAY: to adjust the delay of surround effect on the rear loudspedakers (31 is the default value).

Adjusting the sound level

This menu allows you to balance the sound between the different speakers.

1. Press MENU, select SOUND ( ) and press . The SOUND menu appears :



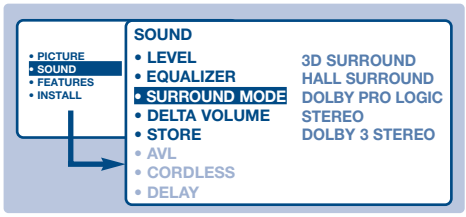
2. Select TEST and press to set it to ON. A continuous sound is emitted in turn from each channel : left, right, centre and rear (depending on the selected surround mode).
   Remark : the rear channel only appears if surround speakers are connected to the TV set. To change the surround mode, press the DMC key.
3. Select BALANCE, CENTRE or REAR and use the keys to adjust the level of each channel independently. The sequence stops while the level is being changed and then automatically starts up again.
4. To stop the test, press MENU.
   Levels may also be adjusted without using the test signal.
5. To exit from the menus, press .

⚠ *Check that the mode selector on the side of the remote control is set to TV.*

Surround modes

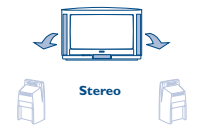
This menu allows you to select the different surround modes.

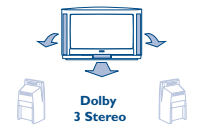
1. Press (MENU), select SOUND (◯) and press ⬭. The SOUND menu appears.
2. Select SURROUND MODE and press ⬭. The menu appears :

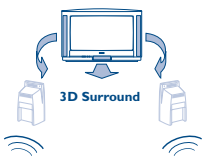


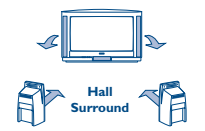
3. Use the ◯◯ keys to select the relevant surround mode : STEREO, DOLBY 3 STEREO, 3D SURROUND, HALL SURROUND and DOLBY PROLOGIC. For each setting, the active loudspeakers are displayed on screen.
   Remark : the DOLBY PRO LOGIC and HALL SURROUND modes are only availables if surround loudspeakers are connected to the TV set..
4. To exit from the menus, press (i).
   This TV set is also equipped with automatic switching which will select the correct surround mode, provided the specific signals are transmitted with the programmes. This automatic format can also be modified manually with the (DUAL I-II) key.

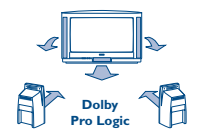
Description of the different surround modes











You have a direct access to the surround modes with the (DUAL I-II) key

Stereo

The sound is reproduced on the left and right loudspeakers of the TV set.

Dolby 3 Stereo (with stereo source)

The sound is distributed over the left, right and centre loudspeakers.
This mode is not recommended for mono transmissions (only the centre channel will be used).

3D Surround (optimal with Dolby Surround source)

This mode enables you to experience the effect of Dolby Pro Logic without the need of having rear speakers connected or activated. The sound is reproduced on the left, right and centre loudspeakers giving the impression of a rear surround effect.

Hall Surround (with mono or stereo source)

The sound is reproduced on the left, right and rear loudspeakers, creating a "Hall Surround" ambient effect. This mode is recommended for broadcasts that are not encoded in Dolby Surround, but where you wish to have a rear surround effect.
This mode is only available when surround loudspeakers are connected to the TV set.

Dolby Pro Logic * (with Dolby Surround sound source)

The left, right, centre and rear speakers reproduce the Dolby Pro Logic sound. This mode is used when a film or programme has been recorded or encoded in Dolby Surround sound. These films or programmes are always indicated by the symbol : ◫◫ **DOLBY SURROUND**.
The DOLBY PRO LOGIC mode is only available when surround loudspeakers are connected to the TV set. This mode is not recommended for mono transmissions (only the centre channel will be used).

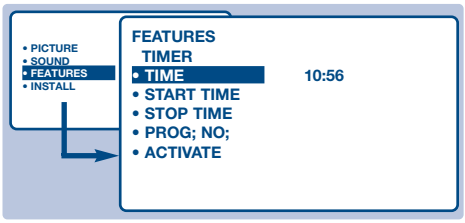
"Dolby" and the double-D symbol ◫◫ are trademarks of Dolby Laboratories Licensing Corporation. Manufactured under license from Dolby Laboratories Licensing Corporation.

⚠ *Check that the mode selector on the side of the remote control is set to TV.*

Timer function

This menu allows you to use your TV as an alarm clock.

1. Press MENU.
2. Select FEATURES (◯) and press ⬭ twice. The TIMER menu appears :



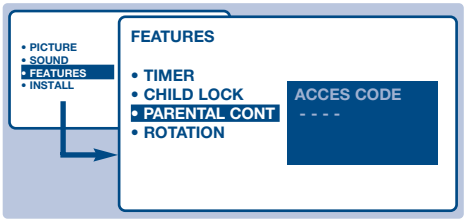
3. Press ⬭ to enter and exit the sub-menus and use keys ◯◯ to adjust:
4. TIME: enter current time.
   Note: the time is updated automatically each time the set is switched on using teletext information taken from programme 1. If programme 1 does not have teletext, the update will not take place.
5. START TIME: enter the start time.
6. STOP TIME: enter the stop time.
7. PROG; NO;: enter the number of the programme required.
8. ACTIVATE: you can set the alarm to be activated:
   - ONCE ONLY for a one-off alarm,
   - DAILY for a daily alarm or
   - STOP to cancel.
9. Press ⏻ to set the TV to standby. It will automatically switch on at the time programmed. If you leave the TV switched on, it will only change programme at the time indicated.
   The combination of the CHILD LOCK and TIMER functions may be used to limit the length of time your television is in use, for example, by your children.

Locking the set

You can bar access to certain programmes or completely lock the set by locking the keys.

Locking programmes

1. Press MENU.
2. Select FEATURES (◯) and press ⬭.
3. Select PARENTAL. CONT. (◯) and press ⬭.



4. Enter your confidential access code. The first time, enter the code 0711 then confirm by re-entering 0711. The menu appears.
5. Press ⬭ to go into the menu.
6. Use keys ◯◯ to select the required programme and confirm with ⬭. The symbol 🔒 is displayed alongside the programmes or sockets that have been locked.
7. Press ⏻ to exit.
   To watch a programme which has been locked you will now need to enter the confidential code; otherwise the screen will remain blank.
   The INSTALL menu access is also locked.
   Caution: in the case of encrypted programmes which use an external decoder, it is necessary to lock the corresponding EXT socket.

To unlock all programmes

Repeat stages 1 to 4 above, then select CLEAR ALL and press ⬭.

To change the confidential code

Repeat stages 1 to 4 above, then:

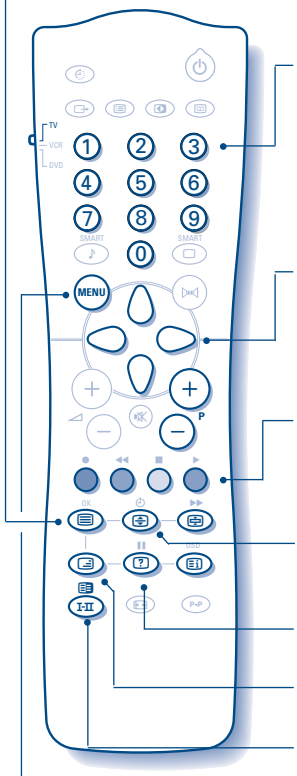
5. Select CHANGE CODE and enter your own 4-digit number.
6. Confirm by entering it again.
   Your new code will be stored.
7. Press ⏻ to exit from the menus.
   If you have forgotten your confidential code, enter the universal code 0711 twice.

Locking the keys

1. Press MENU, select FEATURES (◯) and press ⬭.
2. Select CHILD LOCK (◯) and press ⬭ to set the lock to ON.
3. Switch off the set and put the remote control out of sight.
   The set cannot be used (it can only be switched on using the remote control).
4. To cancel: switch CHILD LOCK to OFF.

Teletext

Teletext is an information system, broadcast by certain channels, which can be read like a newspaper. It also provides subtitles for people with hearing difficulties or those who are unfamiliar with the language in which a particular programme is being broadcast (cable networks, satellite channels, etc.).



Switch teletext on/off

To call up or exit from teletext. When first pressed, the main index page appears with a list of the items available. Each page has a corresponding 3-figure number.

If the selected channel does not broadcast teletext, 100 will appear and the screen will remain blank (in this case, exit from teletext and choose another channel).

Selecting a teletext page

Use keys 0 to 9 or ∧ ∨ or − P + to enter the page number required. For example: for page 120, press 1 2 0. The number is displayed in the top left-hand corner, the page counter starts searching and the page is displayed. Repeat the procedure to consult another page.

If the counter continues searching, this means that the selected page is not broadcast. Choose another number.

Direct selection of sub-pages

Certain pages contain sub-pages (for example, page 120 contains sub-pages 1/3, 2/3 and 3/3). If this is the case, the page number is displayed in green, preceded by the symbol ▶, ◀ or ◀ ▶. Use the keys ◁ ▷ to directly access the sub-pages of your choice.

Direct access to subject headings

Coloured zones are displayed at the bottom of the screen. The 4 coloured keys give access to the corresponding subjects or pages.

The coloured zones flash when the subject or the page is not yet available.

Page enlargement

Press this key to display the upper, then lower part of the screen, and then to return to the normal page size.

Reveal

Use this key to reveal/conceal hidden information (answers to puzzles).

Overlaying text on the TV picture

To activate or deactivate screen overlay.

Double page teletext

To activate or deactivate the double page teletext display mode. The active page is displayed on the left and the following page is displayed on the right. Press ⧉ if you want to hold a page (i.e. the contents page). The active page is then displayed on the right. To return to normal mode, press I-II.

Favourite pages

For teletext programmes 1 to 40, you can store 4 favourite pages which you can then access via the coloured keys (red, green, yellow, blue).

1. Press MENU.
2. Enter the number of the page required.
3. Press i then the coloured key of your choice. The page is stored.
4. Repeat steps 2 and 3 for the other coloured keys.
5. From now on, when you consult teletext, your favourite pages appear in colour at the bottom of the screen.

   To get back to the normal subject headings, press MENU.

   To remove these settings, hold i down for 5 seconds.

⚠ *Check that the mode selector on the side of the remote control is set to TV.*

16:9 Formats

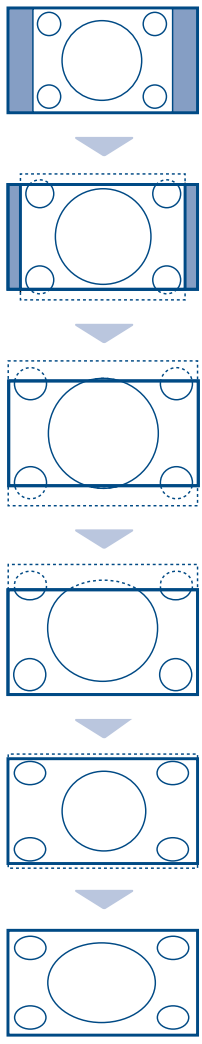
The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). 4:3 pictures sometimes have a black band at the top and bottom of the screen (letterbox format). This function allows you to optimise the picture display on screen.

Automatic switching

This TV set is also equipped with automatic switching which will select the correct-screen format, provided the specific signals are transmitted with the programmes.
This automatic format can also be modified manually.

Using the different screen formats

Press the key (or) to select the different modes:
4:3, ZOOM 14:9, ZOOM 16:9, SUBTITLE ZOOM, SUPER ZOOM and WIDE SCREEN.
You can also access these settings with key .



4:3 Mode
The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture. The picture may be progressively enlarged using the keys.

ZOOM 14:9 Mode
The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture. The keys allow you to compress vertically the image to view the top or the bottom of the picture (subtitles).

ZOOM 16:9 Mode
The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format).
Use the keys if you wish to display the top or the bottom of the picture.

SUBTITLE ZOOM Mode
This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible.
Use the keys to increase or decrease the section at the bottom of the picture.

SUPERWIDE Mode
This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture.
The keys allow you to move the image up or down.

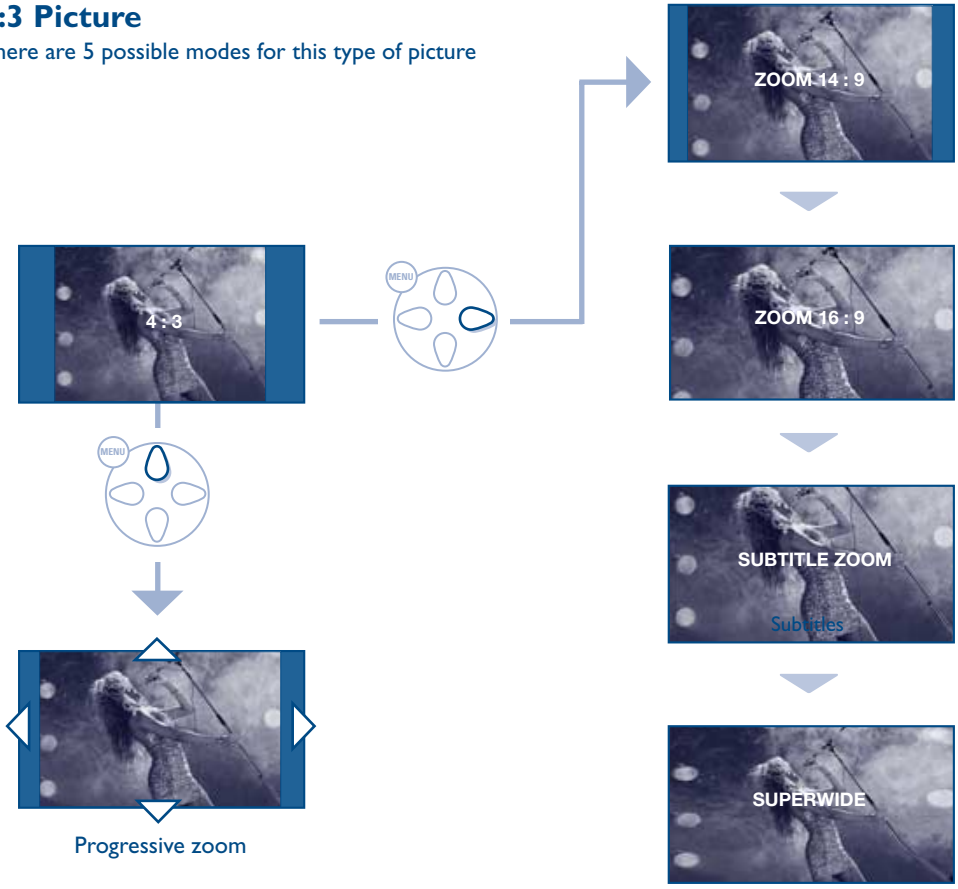
WIDE SCREEN Mode
This mode restores the correct proportions of pictures transmitted in 16:9 using full screen display.
Note: If you display a 4:3 picture in thid mode, it will be enlarged horizontally.

Selecting the correct mode

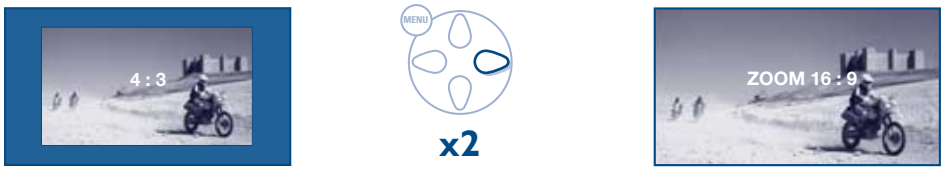
Different modes can be selected to suit different picture formats, use the following diagrams as a guide to which mode to use.

❶ 4:3 Picture

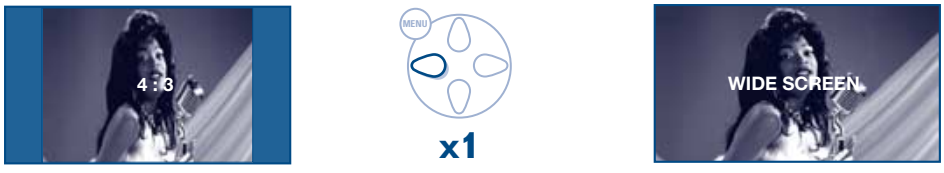
There are 5 possible modes for this type of picture



❷ 4:3 Picture Letterbox



❸ 16:9 Picture



Using the built-in DVD player

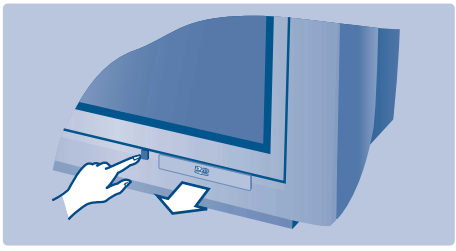
The built-in DVD player allows you to play DVD video disks as well as video and audio CDs (including finalised CD-Rs and CD-RWs). The disks can be recognised by their logo on the packaging.

Note: Generally, DVD films are not placed on the market at the same time in the various regions of the world. Accordingly, DVD players are provided with geographical zone codes. If you insert a disk which has a regional code that is different from that of your reader, you will see a message displayed on the screen. The disk cannot be played and you will have to remove it.

Inserting a disk

❶ Opening the drawer

Press the **EJECT** button twice on the front, to the left of the drawer. The television automatically switches to DVD mode and the drawer opens.



❷ Inserting the disk

Place the disk in the drawer, with the label facing upwards. Makes sure that it is positioned correctly in the recess.

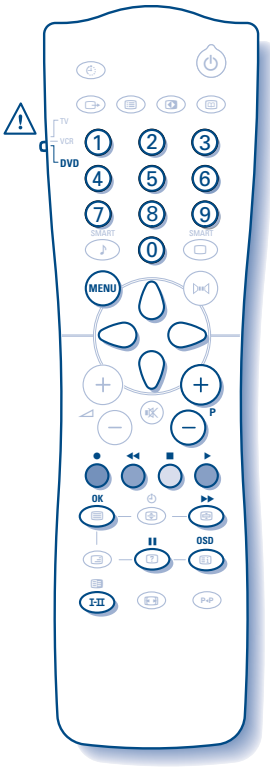
❸ Closing the drawer

Gently push the drawer back in or press the **EJECT** button next to the drawer to close. The disk will begin to play.

❹ Automatic play

Play begins automatically when the drawer closes. A status window appears on the left of the screen and indicates the current operation, the type of disk and its length. Next, the content of the disk is displayed.

Playing a DVD or video CD



⚠ To access the DVD functions you must first switch the mode selector located on the side of the remote control to the DVD position.

Play

Once the disk has been inserted and the drawer closed, play begins automatically. Certain disks will ask you to select a heading from a menu. Use the buttons 0 9 or ▲▼ ◀▶ then press **OK** (button ☰).

Stopping play

Press the ■ button to stop play. The default screen appears and displays information on the player status.

Re-starting play ("resume" function)

When you stop a disk mid-play (by switching to TV mode, standby, ejecting the disk or pressing ■), you can resume play at the exact point you stopped the disk. Simply press the ▶ button, then when you see the I▶ symbol (resume), press ▶ again (otherwise the disk will start playing from the beginning).

The resume function remenbers the last 4 disks played. Simply re-insert the disk and when you see the I▶ symbol press ▶.

Slow motion, fast forward and rewind

During play, press the ▲ button to slow play down to 1/2, 1/4 or 1/8 speed. Press the ◀◀ or ▶▶ (or ◀▶) button to fast forward or rewind at x4 or x32 speed. Press ▶ to return to normal speed.

Freeze-frame

Press ❚❚ (or ▲) to freeze the image. Press ❚❚ again to move to the next frame or ▶ to resume play.

Next / previous chapter

DVD disks are split into different chapters to allow certain scenes to be accessed directly. Use the − **P** + keys to access the previous or next chapter.

DVD menu

Press the MENU key. The DVD menu appears. Its contents will depend on the DVD. It allows you to access different sections, such as choice of language, direct access to certain scenes, special production notes, trailers, etc. Use the ◀▶ ▲▼ keys to select, **OK** confirm and MENU exit.

Language selection

Press the I-II key to select the different languages available on the disk. A menu bar appears at the top of the screen, this will disappear after a few seconds.

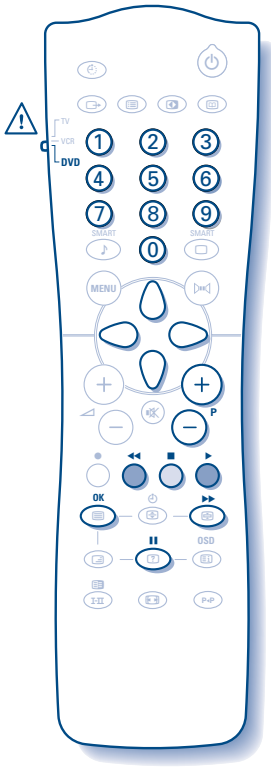
Subtitling language

Press the I-II key then ▶. Use the ▲▼ keys to choose your subtitling language (choose off to deactivate it). The menu disappears after a few seconds.

Ejecting the disk

Press the **EJECT** button located on the front of the television. Play stops, then after several seconds the drawer opens.

Playing an audio CD



⚠ First you must switch the mode selector located on the side of the remote control to the DVD position.

Play

Once the disk has been inserted and the drawer has closed, play begins automatically. A special menu appears on the screen, indicating the number of tracks, the total length of the disk, the current track and time.

Changing tracks

Use the − **P** + keys on the remote control to change tracks or the 0 9 keys to select the track of your choice.

Fast forward and rewind

Press the ◀◀ key or ▶▶ to fast forward or rewind at x4 or x8 speed. Press ▶ to return to normal speed.

Note : this function is not available with MP3 audio CDs.

Pause / stop / eject

Press ❚❚ to pause and ▶ to resume play. Press ■ to stop and the **EJECT** button located on the front of the television to eject the disk.

Programming a favourite track selection

This function allows you to programme a selection of tracks into the memory.

Note : this function is not available with MP3 audio CDs.

1. Press ■.
2. Use the key to select the trackline.
3. Use the or 0 9 keys to choose the number of the required track.
4. Press **OK** to select it. The chosen number appears at the bottom of the screen.
5. Repeat operations 3 and 4 for each favourite track you wish to select (maximum of 20 per disk).
   If you wish you can repeat the same track number several times.
6. Press ▶ to begin playing your favourite tracks.
7. To stop playing favourite tracks, position the on/off line of the menu on **off** (shown in white).
8. To delete everything, select **Delete all** and press **OK**.
   To delete one track only, simply select its number in the favourites list (at the bottom of the screen) and press **OK**.

Playing an MP3 audio CD

The MP3 CDs allow you to store several albums on a single disc. Use the keys to select the albums and the or 0 9 keys to select certain sections.

OSD menu

This menu allows you to access all the special functions of the DVD player.
Press the **OSD** key (key ⓘ). A menu bar appears at the top of the screen with symbols for each setting. Use the ◁▷ △▽ keys to select and make settings.

Description of symbols:

- Preferential settings
- Subtitling language
- Audio language
- Sound
- Frame by frame
- Slow motion
- Fast play
- Camera angle
- Zoom
- **T** Titles
- **C** Chapters / sequences
- Direct access by time
- Favourite tracks

Symbols shown in grey indicate that the setting is not available.

Using the OSD menu

Audio and subtitling language

On the menu bar, select for the audio language and for subtitling. Use the △▽ keys to choose your settings.
The I-II key allows you to access the audio language directly.

Sound

Select and use the △▽ keys to change the sound mode: **st** (stereo) or **on** (surround).

Frame by frame

Select and press △. The image freezes. Use the ◁ or ▷ keys to move forwards or backwards frame by frame.
Press ▶ to resume normal play.

Slow motion / fast play

Select for slow motion or for fast play and press △. Use the ◁▷ keys to select the desired speed. To resume normal speed, press ▶.

Camera angle

Some disks include sequences recorded from several camera angles. Generally a special icon will appear. Select on the menu bar and use the △▽ keys to select the desired angle.

Zoom

Select and press △▽ keys to activate the zoom function with a magnification of 1.33, 2 or 4. The image stops and is enlarged. Press **OK** if you want a panoramic shot of the enlarged image. Use the ◁▷ △▽ keys to move around and **OK** confirm. To exit zoom mode, press ▶.

Direct access to Titles and Chapters

On the menu bar, select **T** to access the different titles available on the disk and **C** for the different chapters or film sequences. Use the △▽ keys to choose your settings.
*The − **P** + keys allow you to access the chapters directly.*

Direct access by time

Select and press △. The image freezes. Use the 0 9 keys to select the precise moment in the desired sequence. Press △ to confirm. Play resumes at the time indicated.

Favourite tracks

See next page.

Preferential settings

See next page.

Preferential settings

Press **OSD**. On the menu bar, select and press to display the preferential settings menu:

Image preferences:

- **TV format;** to choose the screen format (your TV must be set to **16:9**),
- **Black level shift;** to highlight the levels of black in the image (only works with NTSC images),
- **Video shift**; to move the image horizontally.

Sound preferences:

- **Digital output;** allows you to choose: **All** (the optical and coaxial outputs are activated), **PCM** (the optical and coaxial outputs are activated, but for the connection of an appliance without a multichannel digital decoder) or **Off** (no output is activated).
- **Analog output;** to choose the type of signal available on the analog output: **Stereo**, **Dolby Surround*** or **3D sound***.

** These settings do not work with this television.*

- **Night mode;** optimises the sound dynamics for low-volume listening.
- **Karaoke vocal;** Only activate this function for playing special karaoke DVDs (the karaoke voices on the disk are then mixed into the normal stereo sound).
- **PCM Output;** allows you to choose the frequency selection of the PCM digital output.

Language preference:

- **Audio language;** to define the preferred language for the soundtracks of DVD films.
- **Subtitle;** to define the preferred language for subtitles on DVD films.

  If the preferred language is available on the disk, it will be selected by default. If not, the first language on the disk will be activated.
- **Menu;** to set the language for the OSD menus of the DVD. If your language is not available, select English.

Display preferences:

- **Access control** (see next page)
- **Status window;** to turn off the display of the player's status window.
- **Low-power standby;** on a fixed image, the contrast automatically fades after 5 min.
- **PBC;** to activate/disable the indexing function available on certain video CDs.
- **Customer service;** to display/clear the explanation of the icons on the OSD menu.

Favourite tracks

This function allows you to program a selection of favourite tracks into the memory.

❶ Press **OSD**. On the menu bar, select and press to display the menu.

❷ Use the to select the title or chapterline.

❸ Use the or 0 9 keys to choose the number of the favourite **title** or **chapter**.

❹ Press **OK** to select. The chosen number appears at the bottom of the screen.

❺ Repeat operations ❸ and ❹ for each favourite title or chapter to be selected (maximum of 20 per disk).

If you wish you can repeat the same track number several times.

❻ Press **OSD** to exit. The favourite tracks begin playing automatically.

To stop playing favourite tracks

Position the **on/off** line of the menu on **off** (shown in white).

To delete all

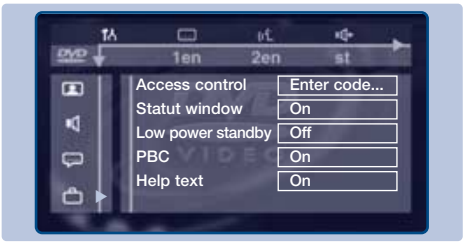
Select **Delete all** and press **OK**.

To delete one title or track only, simply select its number in the favourites list (at the bottom of the screen) and press **OK**.

Access control and lock

This function allows you to access various levels of security for the player.

1. Press **OSD**. Select and press until select menu .
2. Press twice to enter the **Access control** menu.
3. Enter the access code of your choice. You will be asked to enter it a second time to confirm. The **Access control** menu appears:



4. **Child lock:** select to switch this on or off (the 'on' symbol is shown in white). When the child lock is on, you will be asked to enter a code to authorise the playing of DVD and video CD disks.
5. **Parental level:** to activate the level of security from 0 (off) to 8 (maximum).
   Certain DVD disks include security levels (1 to 8) with substitute scenes. For example, if you choose level 4, all scenes of level 4 (and below) will be played. Scenes of a higher level will not be played or will be replaced by substitute scenes. If the disk does not contain any substitute scenes, play stops and you will be asked to enter the 4-digit code.
6. **Change country:** select your country (this setting takes place in the parental level which depends on the country).
7. **Change code;** to modify the access code. You will be asked to enter it a second time to confirm.
   If you have forgotten your confidential code, enter the universal code ■ ■ ■ ■.
8. Press **OSD** to exit.

Play authorisation

When the **Child lock** function is switched on, you will be asked to enter your code to authorise the playing of DVD and video CD disks.

Playing of audio CDs is authorised at all times.

1. Insert a disk in the player. A dialogue field appears:

2. You will be asked to enter your secret code, either for **Play once**, or for **Play always**
3. If you select **Play once**, the disk will be able to be played as long as it is not removed from the player and the television remains switched on (and in DVD mode).
4. If you select **Play always** (with the key), playing of the disk will be permanently authorised.

The player can memorise up to 50 disks. When the list is full and a new disk is added, the last disk in the list is removed.

Double-sided DVD disks (and video CDs with several volumes) may include a different identification code for each side (volume). In this case you will have to authorise each side (volume) separately.

Removing play authorisation

- Insert a disk in the player. Play begins automatically.
- When the ☺ symbol appears, press ■. The symbol ☹ appears, and play authorisation is removed for this disk.

Removing security lock

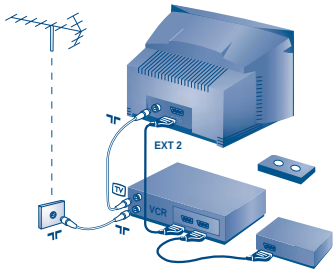
To permanently remove the play authorisation message:

- Press ■ then **OSD**.
- On the menu bar, select then and press .
- Enter your access code and position the **Child lock** setting at (off). The symbol is displayed in white.
- Press **OSD** to exit.

Connecting peripheral equipment

The television has 2 external sockets situated at the back of the set (EXT1 and EXT2).
The EXT1 socket has audio and video inputs/outputs and RGB inputs.
The EXT2 socket has audio and video inputs/outputs and S-VHS inputs.

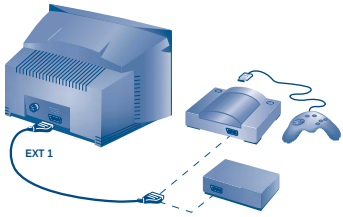
Video recorder



Video recorder (only)
Carry out the connections featured opposite. Use a good quality euroconnector cable.
If your video recorder does not have a euroconnector socket, the only connection possible is via the aerial cable. You will therefore need to tune in your video recorder's test signal and assign it programme number 0 (refer to manual store, p. 6).
To reproduce the video recorder picture, press (0).

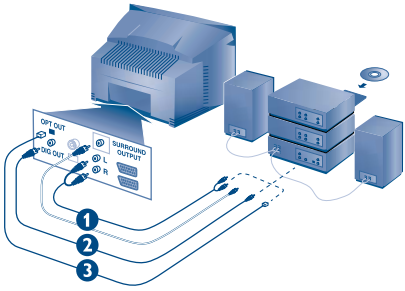
Video recorder with decoder
Connect the decoder to the second euroconnector socket of the video recorder. You will then be able to record scrambled transmissions.

Other equipment



Satellite receiver, decoder, CDV, games, etc.
Carry out the connections featured opposite.
To optimise picture quality, connect the equipment which produces the RGB signals (digital decoder, games, etc.) to EXT1, and the equipment which produces the S-VHS signals (S-VHS and Hi-8 video recorders, certain DVD drives) to EXT2 and all other equipment to either EXT1 or EXT2.

Amplifier



❶ **Amplifier with analog input**
Use an audio connecting cable and connect the television's "L" and "R" outputs to an "AUDIO IN" "L" and "R" input on the amplifier. The surround sound output can be used to connect active loudspeakers to reproduce the rear surround effect.

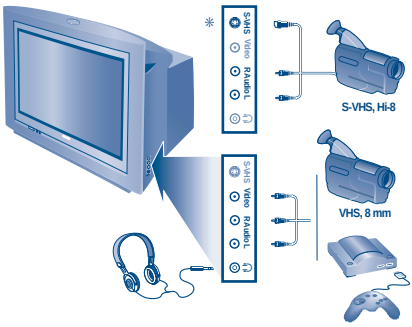
❷ **Amplifier with coaxial digital input**
Use a digital audio connecting cable and connect the television's "DIG OUT" output to a "DIG IN" input on the amplifier.

❸ **Amplifier with optical digital input**
Use an optical connecting cable and connect the television's "OPT OUT" output to an "OPT IN" input on the amplifier.
The analog output corresponds to the sound of the image displayed on screen, digital outputs only to the sound of the DVD (you must activate the DVD's digital output: see preferential settings page 18).

To select connected equipment

Press the ⊡→ key to select EXT1, EXT2, S-VHS2 (S-VHS signals from the EXT2 socket) and EXT3 or S-VHS3 for connections on the front panel.
Most equipment (decoder, video recorder) carries out the switching itself.

Connecting other appliances



Carry out the connections featured opposite.
Using the ⇨ key, select EXT3 for a VHS or 8mm camcorder and S-VHS3 for an S-VHS or Hi-8 camcorder.
For a mono set, connect the sound signal to the AUDIO L (or AUDIO R) input. The sound automatically comes out of the left and right speakers of the set.

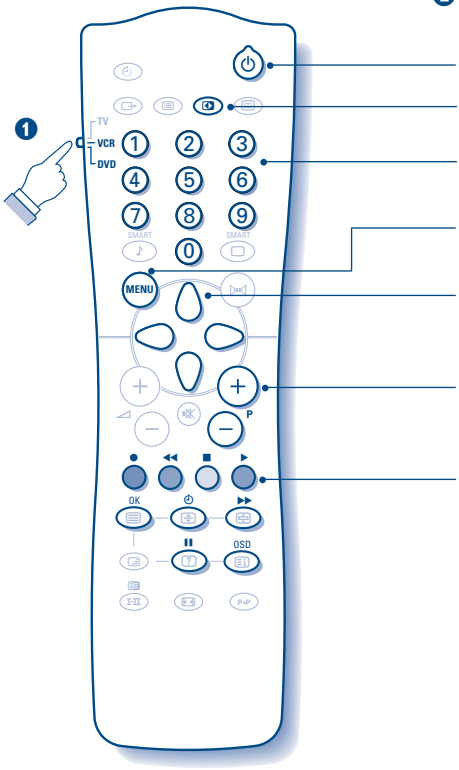
Headphones

The − ◿ + keys allow you to adjust the volume on the headphones and on the set. Press 🔇 if you want to cut off the sound on the set.
The headphones must have an impedance of between 32 and 600 ohms.

TV / VCR / DVD mode selector

The remote control allows you to control the main functions of your video recorder or DVD.

1. Set the switch on the side of the remote control to the required mode: TV, VCR (video recorder) or DVD.
2. Then press one of the following keys:

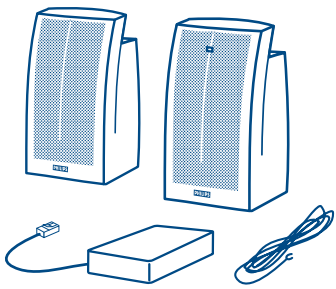


- standby
- contrast + setting *
- enter a number
- bring up a menu *
- select (◖◗) and set (◁▷) *
- select programme,
- ● record *,
- ◀◀ rewind,
- ■ stop,
- ▶ play,
- ▶▶ fast forward,
- ⏲ programming *,
- OK confirm*
- ❚❚ pause
- OSD calling up the OSD menu *

** Some programming functions are not available on all models (cursors, menu, OK key, etc.). The remote control is compatible with all the video recorders in our range as well as models which use the RC5 signalling standard.*

Wireless surround speaker system

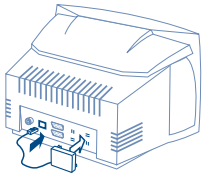
The television can be equiped with an optional wireless surround speaker system (reference AD902W). With this system, the DOLBY PRO LOGIC and HALL SURROUND modes are now availables (see p. 9).
For more informations about this system, contact your dealer. You can also connect active loudspeakers (see p.20).



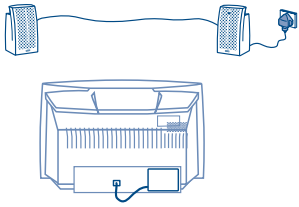
This system includes :

- a wireless RF transmitter to be clicked to the back of the TV,
- an active loudspeaker, which includes the RF receiver, the mains supply, a power switch, a connector clip and a channel selector located on the base,
- a passive loudspeaker to be connected to the active loudspeaker,
- a speaker cable.

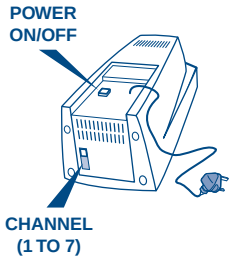
Installation of the Philips wireless system AD902W



❶ After switching off the television, connect the RF transmitter to the connector located on the back of the set. Then click the module to the back of the TV as shown opposite.



❷ Place the 2 loudspeakers at the rear and on either side of the listener. Connect the active and passive loudspeakers together with the supplied cable, making shure the polarity (the + on the + and the - on the -) is maintained. Connect the active loudspeaker to the mains (220-240 V / 50 Hz) with the mains cable.

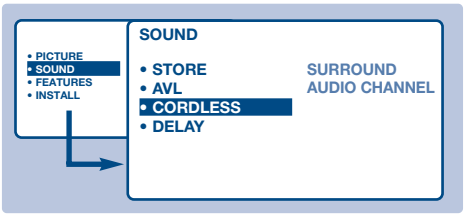


❸ At the bottom of the active loudspeaker, set the slide channel to channel 1. Switch on the active speaker with the power switch. The indicator at the front of the active speaker lights up red when the speaker is in standby and green when there is a surround sound transmission. It turns back to red (standby) when the tv is switched off or when the rear channel is not used (in the case of STEREO, DOLBY 3 STEREO and 3D SURROUND modes).
Now proceed to the surround speaker adjustments in the TV menu (see next page).

Adjusting the surround speakers

To use the surround speakers, you have first to proceed to the folowing adjustments :
Remark : theses menus are only available when surround speakers are connected to the set.

1. Switch on the television.
2. Press the (MENU) key.
3. Select SOUND ( ) and press .
4. Select CORDLESS ( ) (hidden at the bottom of the screen) and press . The menu appears:



5. Set SURROUND to ON to activate the sound RF transmission.
6. Select AUDIO CHANNEL ( ) and select the same channel as you selected on the active loudspeaker (channel 1 has been selected as the factory default). If you should get interferences from external RF equipment (such a wireless headphone, mobile phone, ...), it may be necessary to shift to another channel. In practice, only 2 or 3 channels are available because a step of at least 2 channels are necessary to have enough separation.
Always be shure that the active speaker and the cordless setting are switched to the same channel. Otherwise no sound or only distorted sound will be heard.
7. Press (MENU) to go back to the SOUND menu and select DELAY (hidden at the bottom of the screen). You can adjust, if you wish, the delay of the surround effect (31 is the default value).
8. Once the necessary adjustments have been made, select the option STORE and press to store them.
8. To exit from the menus, press .

Glossary

EasyLink:
Digital link between the set and the video recorder which allows a direct transfer of certain information such as channel setting.

RGB Signals:
These are 3 Red, Green and Blue video signals which directly drive the red, green and blue emitters in the cathode ray tube. Using these signals provides better picture quality.

S-VHS Signals:
These are 2 separate Y/C video signals from the S-VHS and Hi-8 recording standards.
The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape.
This provides better picture quality than with standard video (VHS and 8 mm) where the Y/C signals are combined to provide only one video signal.

NICAM sound:
Process by which digital sound can be transmitted.

System:
Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L L'. The SYSTEM setting (p. 6) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in the majority of European countries, Secam in France, the CIS and the majority of African countries. The United States and Japan use a different system called NTSC. The inputs EXT1 and EXT2 are used to read NTSC coded recordings.

16:9:
Refers to the ration between the length and height of the screen. Wide screen televisions have a ration of 16/9, conventional screen TV sets have a ration of 4/3.

Tips

Poor reception

The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see "fine tuning" (p.6) or modify the orientation of the outside aerial. Does your antenna enable you to receive broadcasts in this frequency range (UHF or VHF band)? In the event of difficult reception (snowy picture) switch the NR on the PICTURE menu to ON. (p. 7).

No picture

Have you connected the aerial socket properly? Have you chosen the right system? (p. 6). Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned). Check all connections.

Peripheral equipment gives a black and white picture

You have not selected the right socket with the ⇨ key: S-VHS2 (S-VHS3) instead of EXT2 (EXT3). To play a video cassette, check that it has been recorded under the same standard (PAL, SECAM, NTSC) which can be replayed by the video recorder.

No sound

If on certain channels you receive a picture but no sound, this means that you do not have the correct TV system. Modify the SYSTEM setting (p. 6).

The surround speakers are producing no sound or distorted sound ? Check that the active speaker and the cordless setting are switched to the same channel (p.23). Check also that the active speaker indicator lights in green (see step 3 page 22) and that the SURROUND menu is set to ON (p.23).

If the digital output does not work, check that it has been activated in the OSD menu (see p. 18).

Does the DVD player no longer work?

Check that the disk does not have any fingerprints on it. Clean it with a soft cloth, wiping from the centre to the edge.

The remote control no longer works.

Check that the mode selector on the side of the remote control is set to TV.

The TV set does not react to the remote control; the indicator on the set no longer flashes when you use the remote control? Replace the batteries.

Standby

When you switch the TV set on it remains in standby mode and the indication LOCKED is displayed when you use the keys on the TV set? The CHILD LOCK function is switched on (p. 8).

If the set receives no signal for 15 mins, it automatically goes into standby mode.

To save power, your set is fitted with components that give it a very low power consumption when in standby mode (less than 3 W).

Cleaning the set

Only use a clean, soft and lint-free cloth to clean the screen and the casing of your set. Do not use alcohol-based or solvent-based products.

Still no results?

If your TV set breaks down, never attempt to repair it yourself: contact your dealer's after-sales service.

Recycling

The materials used in your set are either reusable or can be recycled.

To minimise environmental waste, specialist companies collect used appliances and dismantle them after retrieving any materials that can be used again (ask your dealer for further details).

Information for users in the UK *(Not applicable outside the UK)*

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5 cm all around the TV for ventilation, making sure that curtains, cupboards etc. cannot obstruct the air flow through the ventilation apertures. The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

General Points

Please take note of the section entitled 'Tips' at the end of this booklet.

Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where they are being spoilt by interference.
If your dealer cannot help, ask at a main Post Office for the booklet "How to Improve Television and Radio Reception".

Mains connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fit new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

In order to maintain conformity to the EMC directive, the mains plug on this product must not be removed.

Connecting the aerial

The aerial should be connected to the socket marked ⊐⊏ at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate. Your dealer will know from experience the most suitable type for your locality.
Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

Fitting the stand (if provided)

Use only the stand provided with the set, making sure that the fixings are properly tightened. A diagram showing how to assemble the stand is packed with the stand.
Never use a make-shift stand, or legs fixed with woodscrews.

A10 DVD DPL - 3111 256 1482.2